104-2-4/38

Imbritskiy, M.I., Engineer. AUTHOR:

TITIE:

Damage to steam and water fittings in power stations. (Foure-

zhdeniya parovodyanoy armatury na elektrostantsiyakh.)

"Elektricheskie Stantsii" (Power Stations), 1957, Vol.28, PERIODICAL:

No.2, pp. 21 - 25 (U.S.S.R.)

ABSTRACT: Although the quality of fittings produced has recently improved some of them are still not good enough. In the power stations of the Moscow system in 1955 there were 11 accidents and 98 cases of scrapping equipment because of damage to littings. In one high pressure power station in the first year of operation two boilers had to be stopped 11 times. This all occurred because of defects of design, erection and operation and defects associated with poor quality repairs. The article describes the defects of design with particular reference to steam values and explains with drawings how these are being corrected. Defects associated with poor quality of repairs are then discussed - this is mainly concerned with the organisation of repair work. Defects of erection and operations are also described. It is concluded that fittings factories should improve the quality of production of control and safety valves taking advantage of the experience of power stations. Power Card 1/2 systems should organise the centralised repair of fittings at

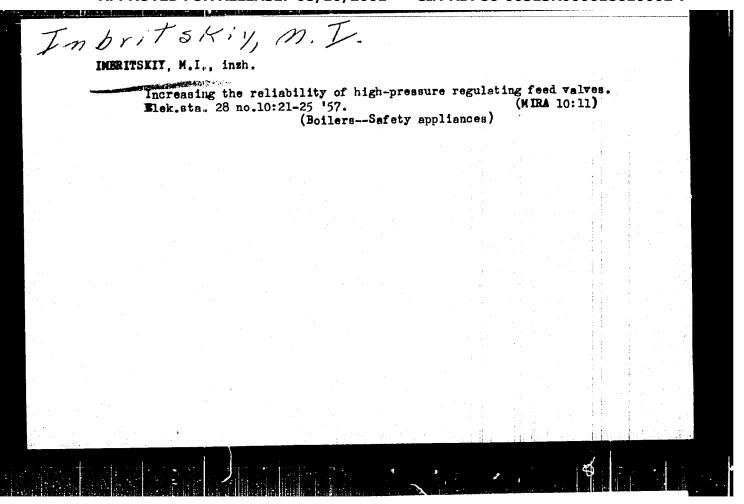
Damage to steam and water fittings in power stations. (Cent.)

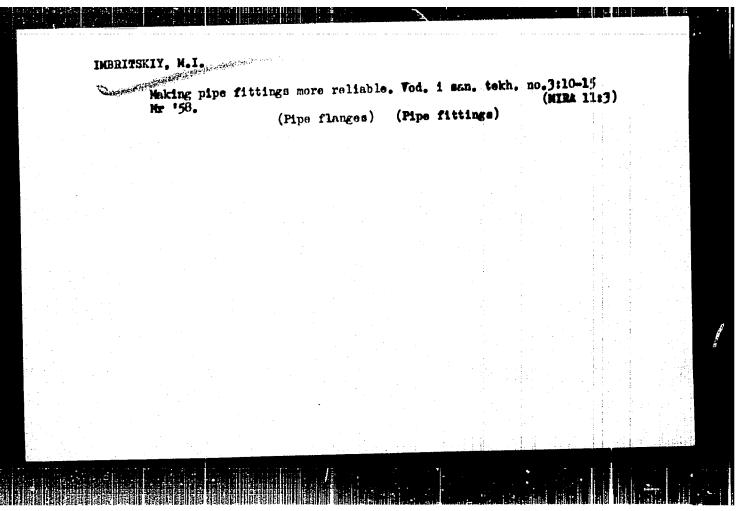
special repair works or in power station workshops. Special designs of fittings repair workshops should be got out. Special courses on the repair of fittings should be instituted in power systems. Existing instructions on the repair of fittings are largely inadequate and they should be rewritten. If fittings appear to be undamaged they should not be dismantled for inspection before erection.

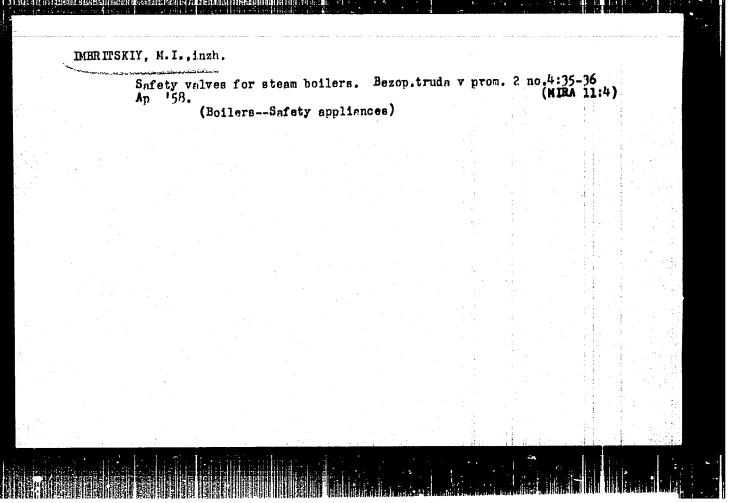
There are 6 figures.

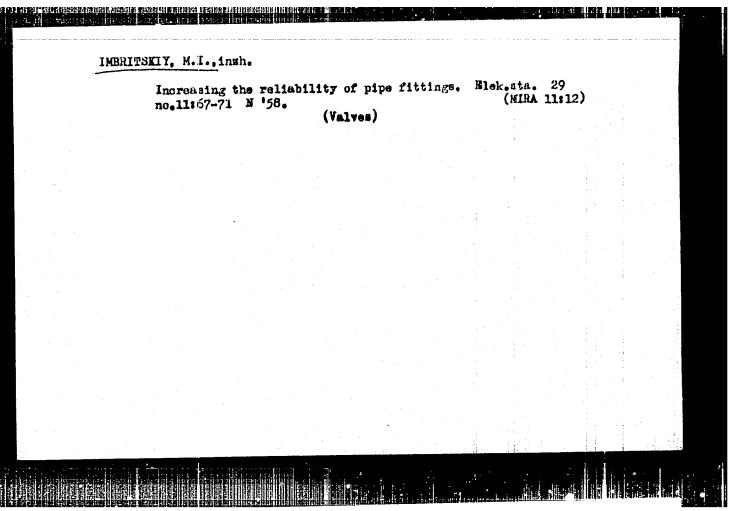
AVAILABLE:

Card 2/2









8(5)

SOV/91-59-3-12/22

AUTHOR:

Imbritskiy, M.I., Engineer

TITLE:

Gasket Sealings for Fittings in Power Plants (Sal'nikovyye uplotneniya armatury na elektro-

stantsiyakh)

PERIODICAL:

Energetik, 1959,

Nr 3, pp 21-25 (USSR)

ABSTRACT:

The author describes various types of gasket sealings currently used for fittings used in Soviet power plants. The sealings most often used consist of a mixture of 60-70% graphite and 40-30% asbestos flakes, and are called "Pushonka". Other popular sealings are of graphite and asbestos rings placed alternately and pressed. In conclusion, the author gives practical instructions for installing new packings. There are

5 diagrams.

Card 1/1

IMBRITSKIY, Matvey Iosifovich; RATNER, A.V., red.; DUB, B.I., red.;
EURUNOV, N.I., tekhn. red.

[Brief handbook on pipelines and fittings|Kratkii spravochnik
po truboprovodam i armature. Moskva, Gosenergoizdat, 1962.
271 p. (Pipe fitting)

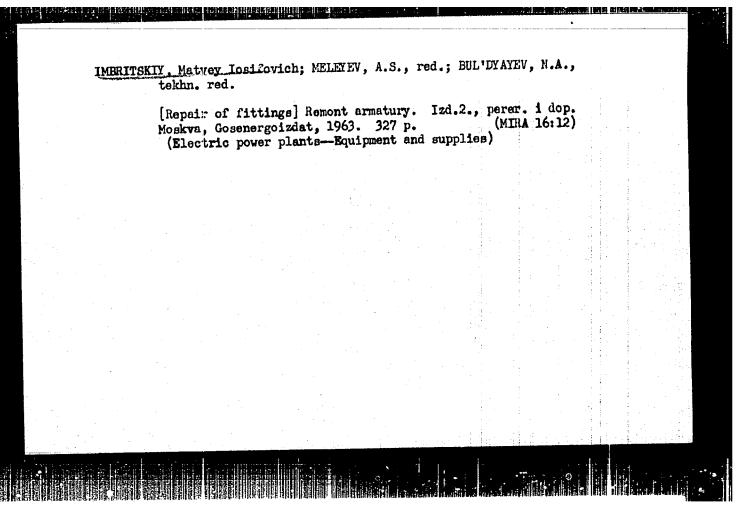
(Pipe fitting)

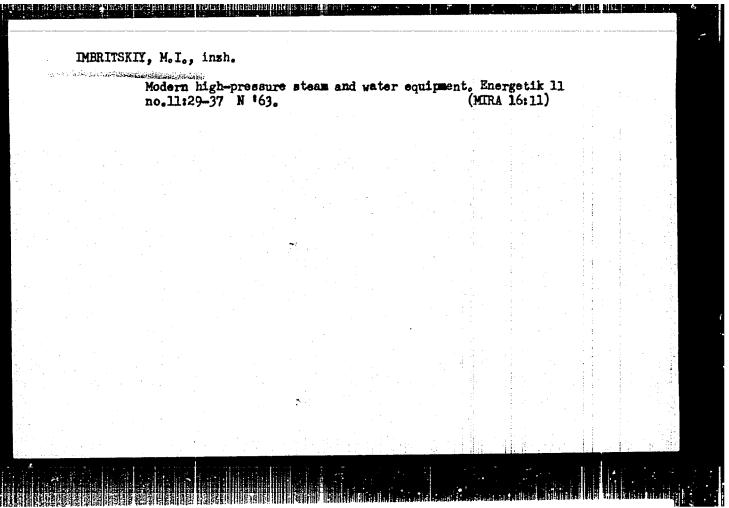
IMPRITSKIY, Metwey Iceifovich; NIKITIN, Anatoliy Pavlovich; ZHILIN, V.G., red.; FRIDKIN, L.M., tekhn. red.

[Handbook on piping and fittings for thermal electric power plants]Spravochnik po truboprovodam i armature dlia teplovykh elektricheskikh stantsii. Moskva, Gosenergoizdat, 1962. 287 p. (MIRA 15:9) (Electric power plants—Equipment and supplies) (Pipe)

IMBRITSKIY, M.I.; ZBOROVSKAYA, R.L., inzh., red.

[Design and installation of the fittings of blocks with increased steam parameters] Konstruktsiia i montazh armatury blokov na povyshennye parametry para; iz opyta energoticheskogo stroitel'stva. Moskva, Orgenergostroi. No.6. 1963. 70 p. (MIRA 17:5)





VUKALOVICH, M.P.; GROMOV, N.K.; IMERITSKIY, M.I.; KARTOSHKIN, M.D.; KOBRINA, R.B.: LEONOVA, A.Ya.; TROYANSKIY, Ye.A.; MANUYLOV, P.N.; SHUKHER, S.M., red.

istratorius de la compania del compania de la compania del compania de la compania del la compania de la compania del la compania de la compania de la compania del la compania de

[Heat engineer's handbook] Spravochnaia knizhka teplotekhnika. Izd.2., perer. i dop. Moskva, Energiia, 1964. 287 p. (MIRA 17:12)

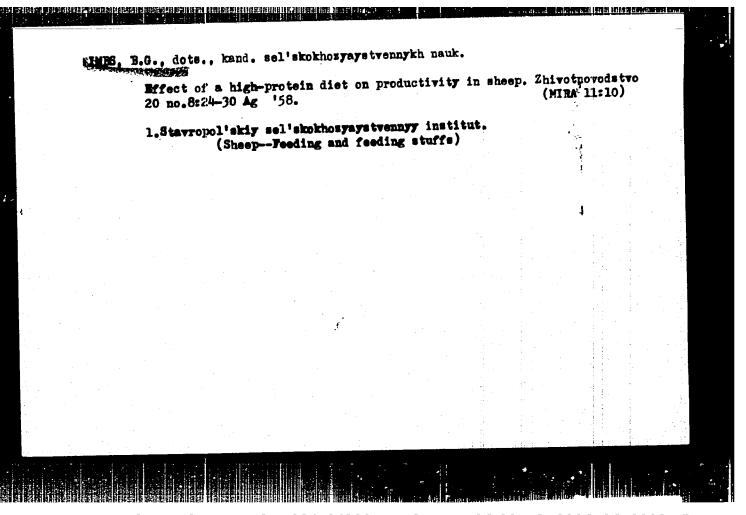
ZAKHARENKO, I.P., kand.tekhn.nauk; IMBIRCKIY, V.I.

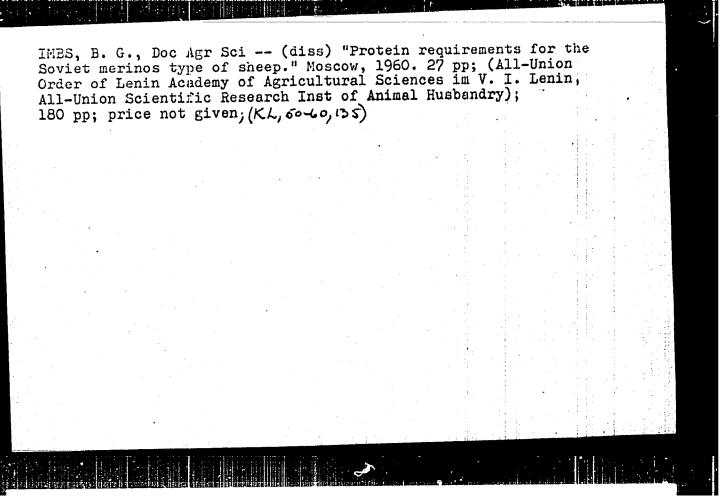
Processing laminated and glass-reinforced plastic materials by a hard-alloy instrument. Bum. i der. prom. no.1:29-33 Ja-Mr '64.

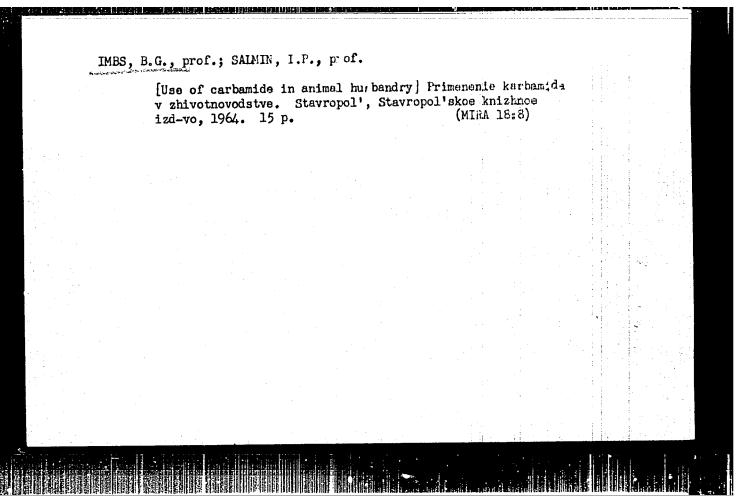
(MIRA 17:6)

Imbs, B. G. "Standardized feeding of young sheep," Trudy Stavrops.-kh. in-ta, Issue 3, 1948, p. 161-98

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)







IMBS, Boguslaw, dr. (Olsztyn)

Principal questions of the organisation of the Polish food industry. Elelm ipar 17 no.4:127-128 Ap '63.

IMES, Boguslaw, dr.

Organizational problems in the food industry of Poland. Elelm ipar 17 no.10:301-307 0 163.

1. Mezogazdasagi Foiskola, Olsztyn, Lengyel Nepkoztarsasag.

WANKOWICZ, Regina; IMBS, Daniela

BALTER DER EIN KRITZER ZURST FEIGE BEREICHE BESUND BEBRUIKER DER FEGERALT FRESCHER UND FREISEN FOR STEILE FERS

A case of adenovirus type 4 infection with a severe clinical course. Pediat. Pol. 40 no.3:301-303 Mr '65

1. Z Kliniki Terapii Chorob Dzieci Akademii Medycznej w Warszawie (Kierownik: prof..dr. med. H. Brokman) i z Zakladu Wirusologii Panstwowego Zakladu Higieny w Warszawie (Kierownik: prof. dr. med. F. Przesmycki).

USSR / Plant Physiology. Photosynthosis.

Ι

Lbs Jour

: Rof Zhur - Biol., No 1, 1959, No 1265

..uthor

: Skripchinskiy, V. V.; Imbs, G.; Kosikova, P. G., and Lodokhovich, M. M.

Inst

: Not given

Titlo

: Carotin and Chlorophyll Content in the Leaves of Some Fedder and Coroal Grass Plants of Stavropol'ye During Various Stages of Development.

Orig Pub

: Materialy po Isuch, Stavropol'sk, Kraya, Fasciclo 8, 61-72, 1956.

Lbstraot

studies of the dynamics of chlorophyll and caretin in the leaves of crested wheat grass, arhizomatous wheat grass, awaless bromograss, dow grass, meadow timethy, tall catgrass, bulbous barley, cultivated and wild ryo, and whater ryo and wheat, under conditions of Stavropol'skiy Kray. The increase or decrease in the amount of green pigments

Card 1/2

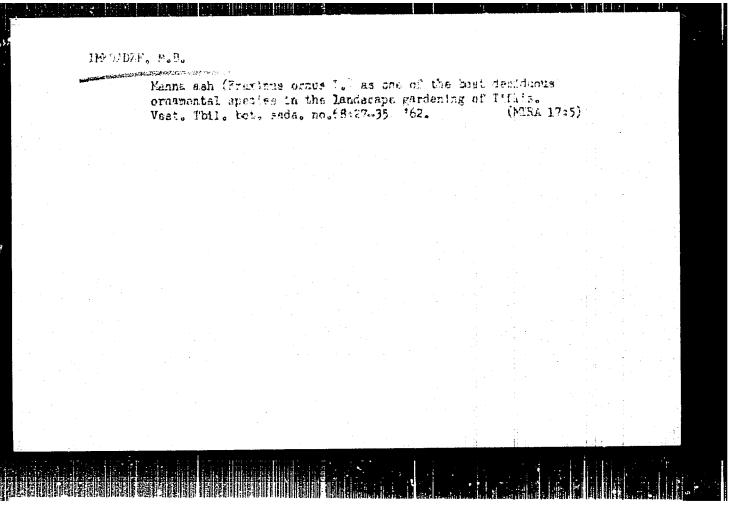
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610002-7"

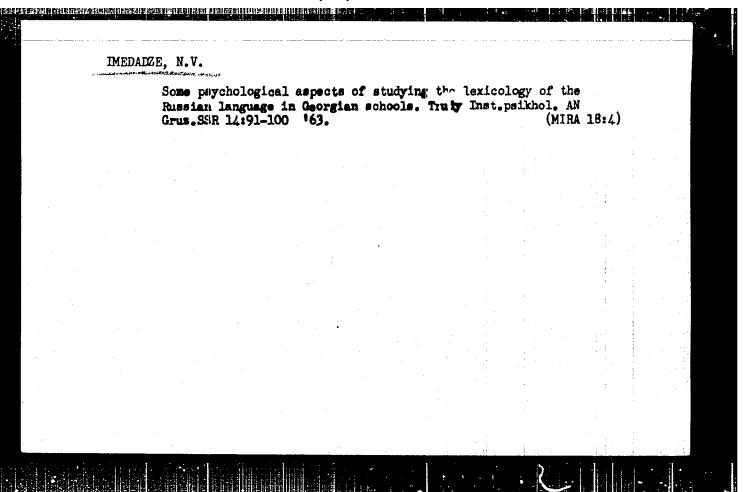
lbs Jour : Rof Zhur - Biol., No 1, 1959, No 1265

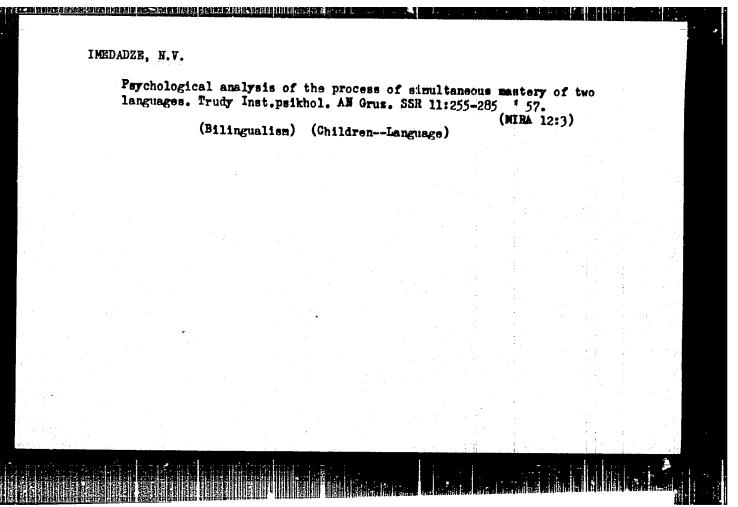
was observed not to be necessarily accompanied by an increase or decrease in the amount of caretan. In arhizonatous wheat grass, bulbous barloy, and perennial forms of ryo, the maximum quantity of chlorophyll was present during the stages of tillering, tube-formation and earing; in the created wheat grass and meadow timethy the chlorophyll content increased until the stage of tube-formation. The maximum content of caretin (in milligrams/kg) was observed in winter wheat (663), bulbous barloy (559), perennial forms of ryo (505-580), dow grass (542), tall eatgrass (510), created wheat grass (216-402). Bibliography with 15 titles.— N. S. Gorelkina.

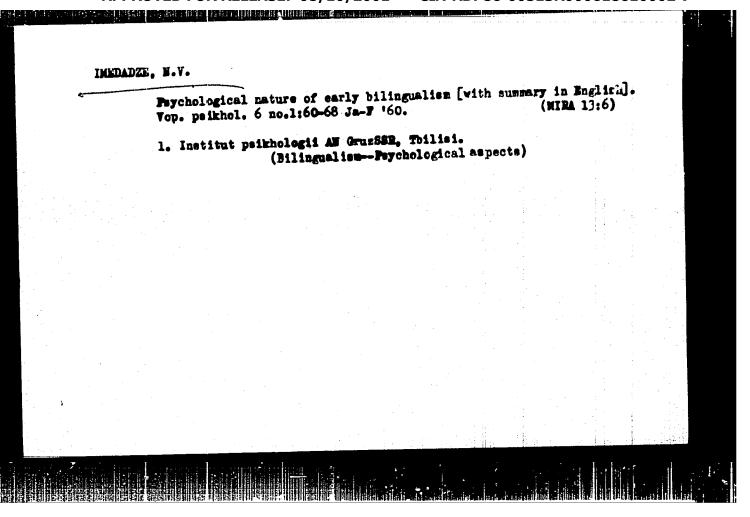
Card 2/2

IMED	DADZE, M.B.	
	Evergreen buckthorn (Rhamnus alaternus L.) in Tiflis. Biul.Glav.bot.sada. no.14:96-97 '52. (MLRA 6:5)	
	1. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR. (TiflisBuckthora)	
(4), 1 (1), 14 (4), 24 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14 (1), 14		Parker







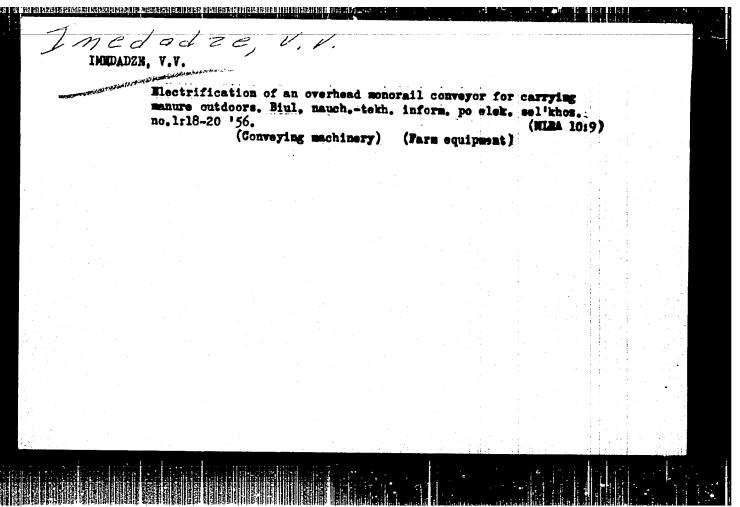


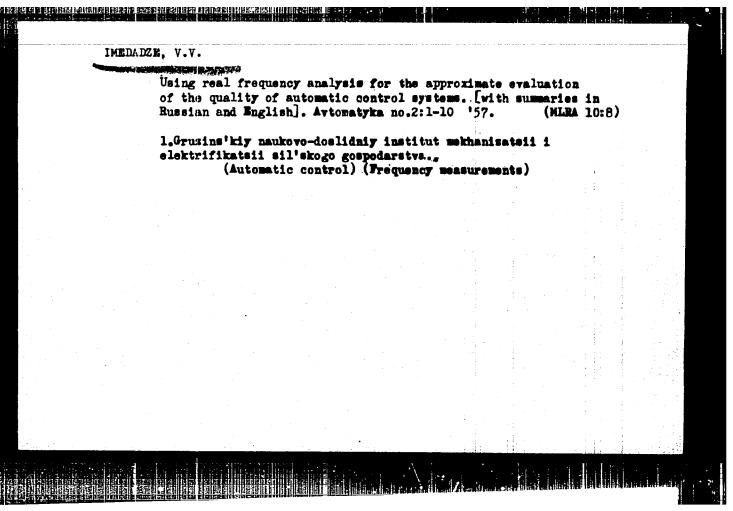
IMEDADZE, V. V.

THE REPORT OF THE PROPERTY OF

"Investigatic, of the Systems of Automatic Control and of the Control of Subsidiary Mechanisms in Print Rolling Mills and Heavy Type Excavators,"

Dissertation for the Degree of Candidate of Technical Sciences, defended at Institute for Automation and Remote Coutrol of the AS USSR, 25 June 1953, (Elektrichestvo, 1958, Nr 4, pp. 87-88)/





\$/194/61/000/010/032/082 D222/D301

9,7100

AUTHORS:

Imedadze, V.V. and Paylodze, I.P.

TITLE:

Registers and binary counters with ferrites and

transistors

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 32, abstract 10 B215 (Elektronikis, avtomatikisa da telemekhanikis institutis shromebi. Tr. In-ta elektroniki, avtomatiki i telemekhaniki

AN GruzSSR, 1960, 1, 65-91)

TEXT: Circuits of distributors and registers with ferrites and transistors, constructed without using blocking pulses are described. In these circuits the transistors are connected into the coupling circuits so that the process of transmitting information to the next digit is different from earlier circuits. The circuits are analyzed for the cases when the shifting windings of all digits are driven sequentially and in parallel. Oscillograms of all basic

B

Card 1/2

Registers and binary counters... S/194/61/000/010/032/082 D222/D301

values illustrating the operation of a binary counter are given. The theoretical analysis and experimental data agree well. 16 figures. 4 references.

Abstracter's note: Complete translation.

UB

Card 2/2

9.4120

S/194/61/000/010/035/082 D256/D301

AUTHORS:

Imedadze, V.V. and Lekvinadze, A.G.

TITLE:

Performance analysis of a thyratron commutator-

switch

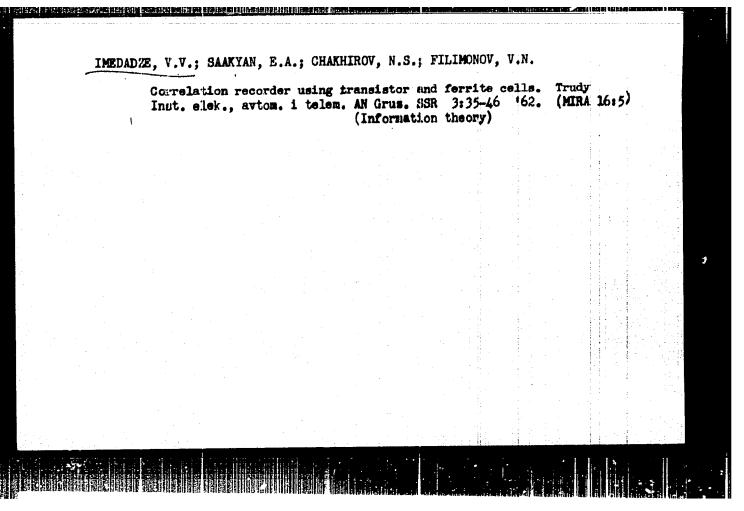
PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1960, 5, abstract 10 V37 (Tr. In-ta elek-troniki avtomatiki i telemekhan. AN GruzSSR, 1960,

1, 93-103)

TEXT: An analysis is presented of a thyratron switching arrangement under active- and inductive-loads, and it is shown that the switching speed is considerably higher for a purely active load than for a mixed active-inductive one. A system of switching el.magn. devices was investigated and a max. switching speed of 100-150 cs/sec was reached. The results of the experiments were found to be in full agreement with the analysis. 9 figures. 4 references. Abstracter's note: Complete translation 7

Card 1/1



DOMANITSKIY, S. M.; MEDADZE, V. V.; DEXTRADZE, A. G.

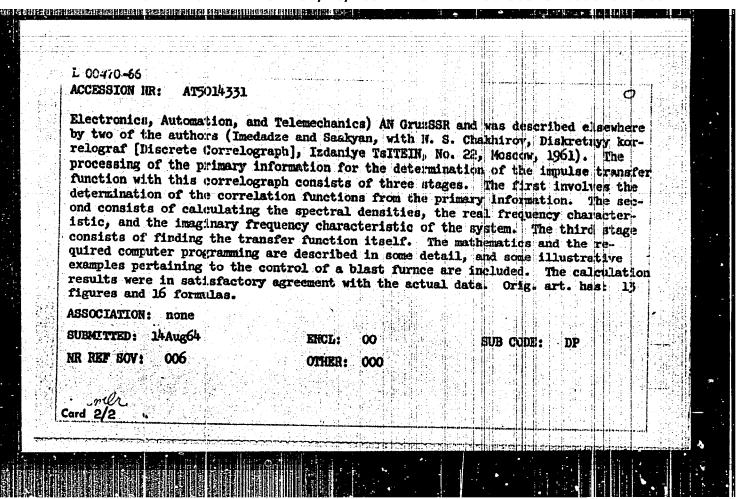
"Digital Optimal System of Programme Control and Its Application for Ellooming Mill Press Device."

Paper to presented at the IFAC Cungress, to be held in Basel, Switzerland, 27 Aug to 4 Sep 63

IMEDADZE, V.V.; SAAKYAN, E.A.; CHAKHIROV, N.S.

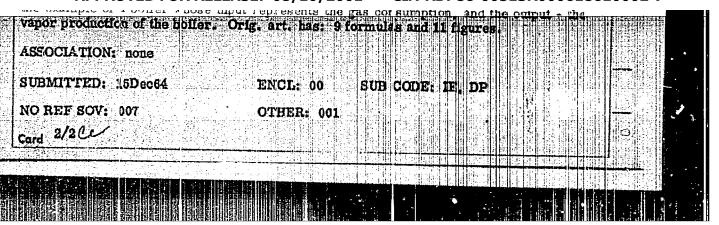
Statistical methods for determining the dynamic characteristics of industrial objects. Trudy Inst. elek., avtom. i telem. AN (MIRA 17:5)

我就有效的女孩去跑12世路推 底20世前是新兴网 653世终的111年11年6月11日11年8月8年 L 00470-65 ACCESSION NR: AT5014331 UR/0000/64/000/000/0071/0084 AUTHOR: Imedadze, V. V.; Saakyan, E. A.; Melikhova, Ye. V TITLE: Determination of the dynamic characteristics using a discrete correlation computer SOURCE: AN GruzSSR. Institut elektroniki, avtomatikii telemektaniki. Elementy vychislitel'noy tekhniki i mashinnyy perevod (Elements of computer technology and machine translation). Tiflis, Izd-vo Metsniyereba, 1964, 71-84 TOPIC TAGS: correlation function, data processing system, data correlation ABSTRACT: The article discusses the various computer methods of determining the correlation function by means of a convolution-type integral of the form $R_{us}(\epsilon) = \int R_{ss}(\epsilon - a)k(a)da$ where R_{YX} is the mutual correlation function, R_{XX} the autocorrelation function, and $K(\sigma)$ the impulse transfer function of the system. It is shown that the combined use of the Fourier transformation and of a special computer (discrete correlograph) offers many advantages over other methods. The correlograph itself was developed at the Institut elektroniki, avtomatiki i telemekhaniki (Institute of Card 1/2



ENT(d)/EFF(n)-2/ENP(v)/EIP(k)/ENP(h)/ENP(1) HO-1/PA-1/PE-1/PE-WW/GS/BC IJP(c) Pae-2/Pu-4/Pk-4/P1-4 UR/0000/65/000/000/d127/0135 ACCESSION NR: AT5009733 AUTHOR: Imedadze, V.V.; Saakvan, E.A. TITLE: Calculation of the dynamic characteristics of objects under control using a discrete correlograph EOURCE: Analiticheskiye samonasiralvayushchiyesya sistemy avotmaticheskogo uprayleniya (Analytical adaptive control systems). Moscow, Izd-vc Mashinostroyeniya, 1865, 127-135 TOPIC TAGS: correlograph, dynamic characteristic calculation, successful caloclation, mutual correlation calculation, transfer function calculation, courier transform application ABSTRACT: Recently, statistical methods have been developed for the determination of the dynamic characteristics of controlled objects (see, a.g., V. V. Solodovníkov, A.S. Uskov, Statisticheskiy analiz objectov regulirovaniya, Mashgiz, 1960) enabling on the calculate the necessary characteristics of the system from the records of the input and control country quantities collected during normal quantities. output quantities collected during normal operation. These methods are usually either based

calculate the necessary characteristics of the system pane his records to paracteristics of the system pane his records to paracteristics of the system pane his records to be solution of the integral on or lead to the solution of the integral Ru (i) () () (ii) (iii) (iii) (iii) (iii) (iiii) (iiii) (iiiiiiii	
L 42011-65 ACCESSION NR: AT5009733 Where R. ((1) is the autocorrelation input function; Ryx((1) is the mutual correlation lumotion between the input and output of the system, and k(9) is the pulsed transfer function. This equation can be solved by means of Fourier transforms (V. V. Solodovnikov, A.S. Uskov, Avtomatika; telemekhanika, 1959, 10. 12), and the necessary calculative manipulations can	



t 01038-67 SOURCE CODE: UR/0000/65/000/000/0034/0039 ACC NR. AT6015125 AUTHOR: Imedadze, V. V.; Saakyan, E. A.; Melikhova, Ye. V. ORG: none TITLE: Some problems in evaluation of accuracy of correlation functions SOURCE: AN GruzSSR. Institut elektroniki, avtomatiki i telemekhaniki. Skhemy avtomaticheskogo upravleniya (Automatic control circuits). Tiflis, Izd-vo Meteniyereba, 1965, 34-39 TOPIC TAGS: correlation function, correlation statistics ABSTRACT: Further improvement in the methods of calculating correlation functions with the source information in discrete form, should go along these two directions: (1) Development of methods for evaluating the error depending on the number of points of source information; with knowledge of the process frequency spectrum available. the highest-frequency region should contain 10-40 points; (2) With a sufficiently large number of source-information points, the accuracy of calculation of correlation function should be determined. The present article places particular emphasis on the Card 1/2

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case of a relatively small number of the centered autocorrelation function quantization and (b) determination	n indicates two s	ources of errors	(a) level
interval is q = 1/31 maximum level	l, the quantization	n error is negligi	ble. For
practical purposes, it is recommen be restricted to the second decimal	place. With the	above provisions	, the correlation
functions of interdependent paramet Pervoural'sk Pipe Plant were estin	nated on a DK-1 ² d	igital correlogra	ph developed by
the Institute of Electronics, Automahas: 35 formulas.	itics and Telemed	hanics, AN Gruz	SSR. Orig. art.
SUB CODE: 12, 09 / SUBM DATE	: 29Sep65 / ORIG	G REF: 005	
awm Card 2/2			

IMBILISHVILI, K.A. Dynamics of certain differential transmissions. Scob.AU Grus. SS2. 17 no.1:27-34 '56. (MIRA 9:8) 1. Tbilisekiy institut inshenerov shelesnodoroshnogo transporta imeni V.I. Lenina. Predstavleno deystvitel'nya chlenom Akademii I.S. Zavriyevym. (Power transmission) (Mechanical movements)

5OV/124-57-9-9963

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 9, p 14 (USSR)

AUTHOR: Imedashvili, K. A.

TITLE: Kinematic Peculiarities of Some Planetary Transmissions

(Osobennosti kinematiki nekotorykh planetarnykh peredach)

PERIODICAL: Sb. tr. Tbilisk. in-ta inzh. zh.-d. transp., 1956, Nr 30, pp 156-160

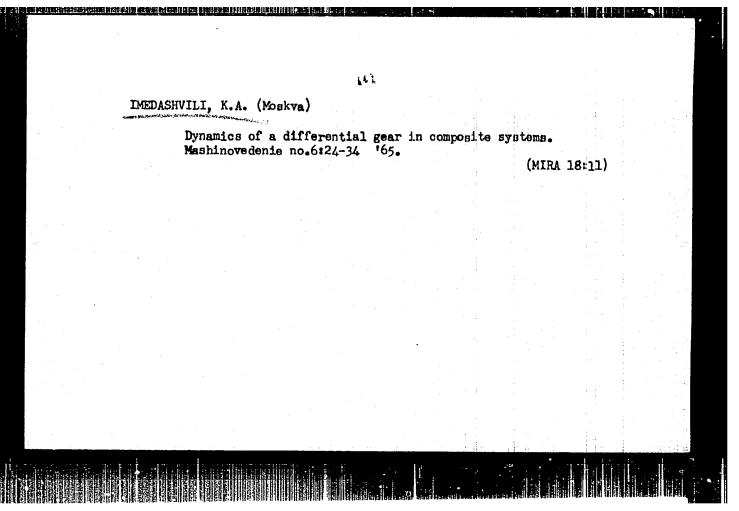
ABSTRACT: The magnitude of the gear ratio (in terms of absolute motion)

between the drive and the satellite gears is investigated for various

configurations of planetary mechanisms.

S.G. Kislitsin

Card 1/1



KHIDROGLUYAN, Sh.A.; IMEKCHYAN, N.M.

Regeneration of the spinal cord in rats. Izv. AN Arm. SSR.
Biol. nauki 17 no.4:11-20 Ap '64. (MIRA 17:6)

1. Institut fiziologii imeni L.A. Orbeli, AN Armyanskoy SSR.

INMLIK, C. I.

IMELIK, C. I. -- "Changes in Respiration in Muscular Work as Investigated by the Pneumotachographic Method." Tartu State U. Tartu, 1955.

(Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

IMEL KOVA, N. I USSR/Biology - Plant physiology Card 1/1 Pub. 22 - 51/54 Shestakov, A. G.; Ivanova, G. F.; and Imel'kove, N Authore Sensitivity of plants to the effect of radiophosphorus during Title development phases Dok. All SSSR 102/5, 1043-1046, Jun 11, 1955 Periodical Data are presented on the sensitivity of cat plants toward the effect of radiophosphorus applied during various phases of development. Regults are described. One USSR reference (1955). Tables. Abstract Institution : The K. A. Timiryazev Agricult. Academy, Mosecu Presented by : Academician A. L. Kursanov, February 14, 1955

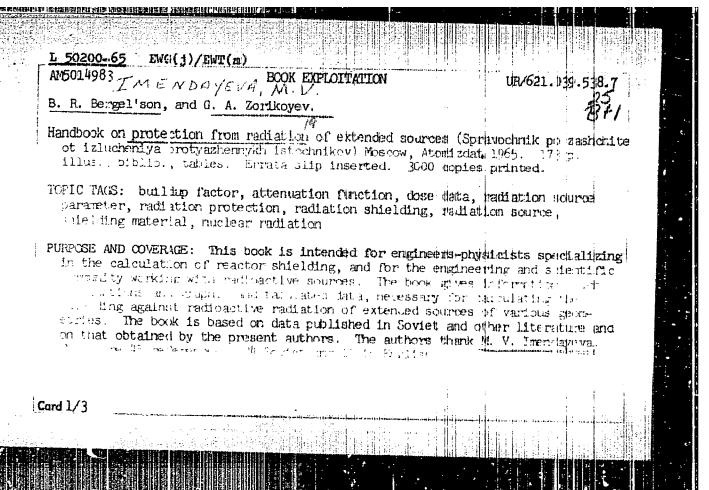
STEPANOV, V.N., prof. doktor sel'skokhoz. nauk; IMENDAYEVA, L.V., aspirantka.

Utilizat'on by plants of nutrients stored in seeds, Izv.
RSKHA nc. 1:82-91 *65 (MIRA 19:1)

1. Kafedra rasteniyevodstva Moskovskoy sel'skokhozyaystvennoy ordena Lenina akademii imeni Timiryaseva.

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		General — 5 1. Point and Linear sources 2. Surface sources — 7 3. Volume sources — 13 4. Radiation yield from sou		osg euc	netries	 19						+00
		Graphs for Attenuation Function Supplement [parameters, etc.] References — 174									A control of the cont	
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				aki i miri).

IMENICI, M. I., GOFITKEVICH, M. P., SCHUK, B. A. (USSR)

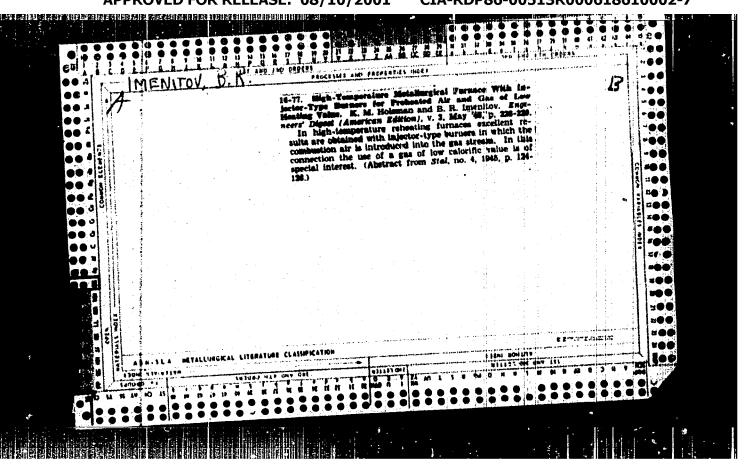
"The Influence of ATP and Insuline on the Carbohydrate Metabolism of Ehrlich ascite Cells and Mucleated Erythrocytes (read by title)."

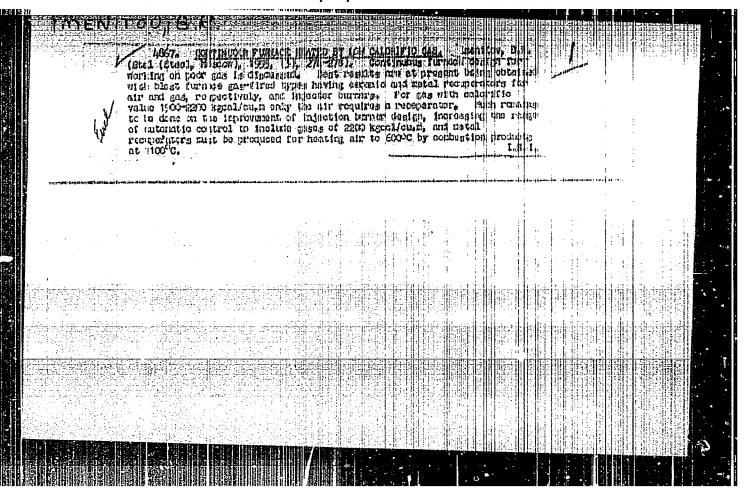
Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

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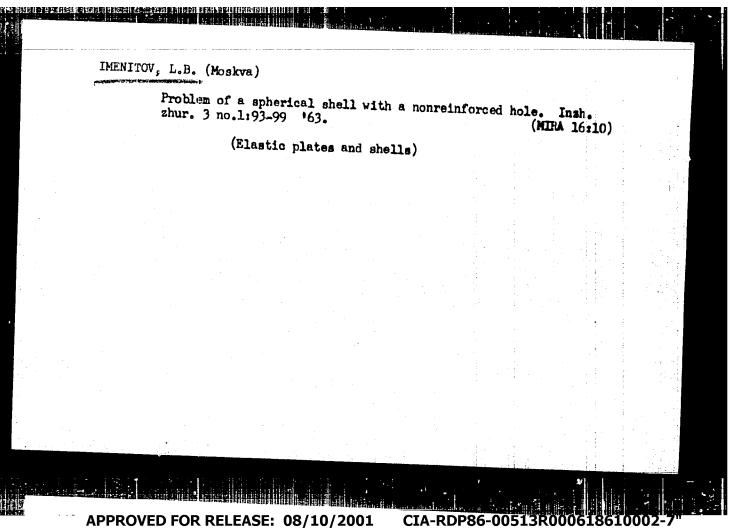


IMENITOV, B. R., (Can. Tech. Sci.)

"The Use of Low-heat Gas, Burned in Ejector Burners in Warmed Air and Gas, for Heating High-Temperature Furnaces"

(Theory and Fractice of Gas Combustion; Transactions of a Scientific and Technical Meeting) Leningrad, Gostoptekhisdat, 1958. 3kg p.

5/879/62/000/000/007/083 D234/D508 Imenitov, L. B. (Moscow) AUTHOR: Application of the theory of functions of a complex wariable to the solution of statically inteterminable problems TITLE: of momentless theory of a spherical shell Teoriya plastin i obolochek; trudy II Vsesqyuznoy kinforentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 94-96 SOURCE: TEXT: The author considers an elastic spherical shell with a note, clamped along the edge, with a concentrated force acting at a certain point of the shell. In order to avoid the inconsistency in the boundary conditions, the author divides them into tingential and non-tangential conditions, and proposes that the former should be non-tangential conditions, and proposes the latter with the adjusted with the aid of momentless theory, the latter with the adjusted with the edge effect. It is stated that this possibility has been aid of the edge effect. It is stated that this possibility has been verified by expanding the unknown stress and displacement into series; it was found that an iteration process can be constructed in Card 1/2



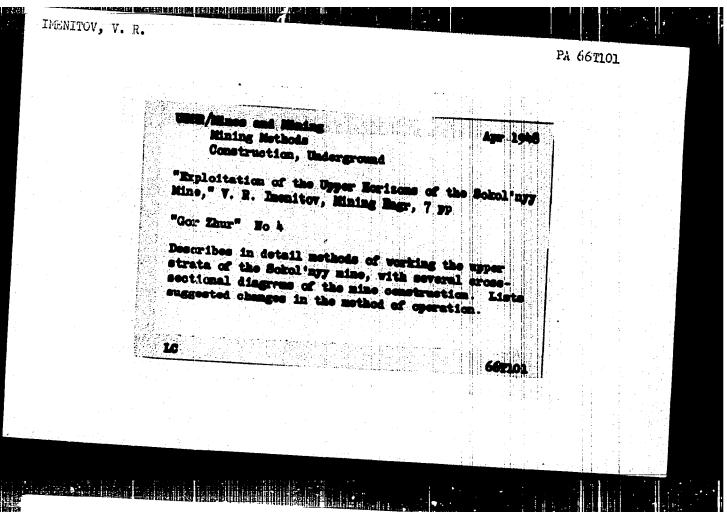
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WEROVIN, K. A., IMENITOV, V. R.

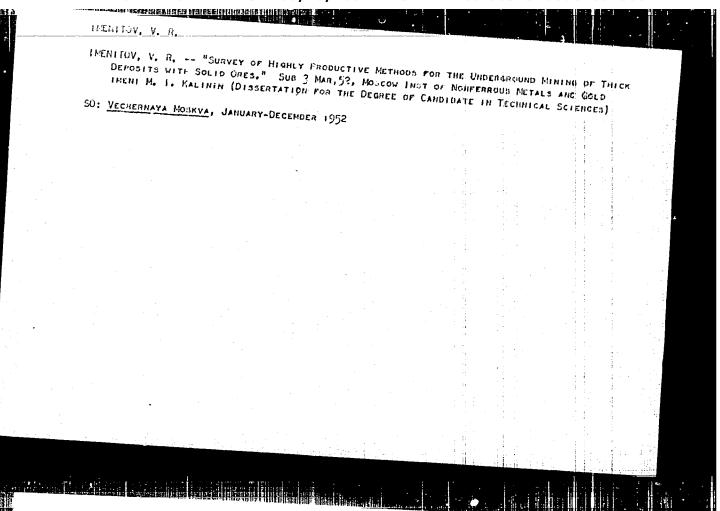
USSR

"Hydreulic Packing", Tevet. Met. 14,
No. 10-11, Oct. -Nov. 1939.

Report Nol U-1506, 4 Oct. 1951



MENITOV, V.K.			
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2. USSR (600)			
4. Technolog y			
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7. Highly productive systems of working wide veins.	Moskva, Me	tallurgisda	1051
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IMENITOV, Vladimir Rafailovich; AGOSHKOV, M.I., retuenzent; KASSYURA,
A.C., gorm; imshener, retuenzent; SIMDOROVSKIY, M.S., redaktor
PARTSEVSKIY, V.M., redaktor; EVENSOH, I.M., tekhnicheskiy redaktor.

[Methods of working thick ore deposits.] Sistemy rasrabotki
moshchugkh rudnykh mestoroshdenii. Moskva, Gos.nauckno-tekhn.
isd-vo lit-ry po chernoi i tavetnoi metallurgii, 1955. 311 p.

(Mining engineering)

(MINA 8:10)

IMIENTION V K

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610002-7"

IMENITOV, V.C. AUTHORS:

Imenitor, V.R., Candidate of Technical Sciences, and Gamberg, 127-12-1/28 R.M. and Kazikayev, D.M., Mining Engineers

TITLE:

Methods of Preparation of Chamber Bottoms and Pillars (Sposoby podgotovki dnishch kamer i blokov)

PERIODICAL: Gornyy Zhurnal, 1957, No 12, pp 3-8 (USSR) ABSTRACT:

The Zyryanovek Lead Combine mines from the thick steep-sloping deposits of very hard ore by breaking off the ore with deep blast holes. The author describes several mining systems used in various ore mines and then dwells on the trench undercutting of chambers which is the system used in the Zyryanovsk mine of the Zyryanovsk Lead Combine. Citing some technical and economical indices of this system the author draws the follow-

The trench undercutting method is more efficient than the undercutting with formation of funnels; moreover, the costs of development opening are reduced.

2. The formation of trenches by horizontal bore holes is more economical than their formation by vertical fan-shaped sets of holes; in addition to this, it achieves more regular outlines of the trenches which facilitate the subsequent breaking off

Card 1/2

Methods of Preparation of Chamber Bottoms and Pillars

127-12-1/28

the ore in the chambers.

3. The rectangular shape is the best suited for the trench orts.

4. Slopes for the ore outlet with an incline of 50 to 60° are better than vertical ones.

5. If the ore is sufficiently rigid, it is expedient to make wide slits instead of slopes in the trench undercutting system. 6. Funnels formed by means of blasting are to be advanced from below upward for the entire cross section at once. The article contains 7 figures, and 2 tables.

ASSOCIATION: Moscow Mining Institute (Moskovskiy gornyy institut) and Zyryanovek Lead Combine (Zyryanovskiy svintsovyy kombinat)

AVAILABLE:

Library of Congress

Card 2/2

IMENITOV, V.R., dotsent, kand. tekhr. nauk; URALOV. V.S., ingh.

Pirst results of medeling block caving by blast. Mauch. dekl.

vys. shkely; ger. dele no.1:9-14 '59. (MIRA 12:5)

1.Predstavlena kafedrey rasrabetki rudnykh mestereshdeniy

Meskevskege gernege instituta im. I.V. Stalina.

(Mining engineering)

Principles of large-scale breaking down of ores. dor.

shur. no.8:42-44 Ag '60. (MEM 13:8)

1. Moskovskiy gorny institut (for Imenitor). 2. Zyryanovskiy svint. nyy kombinat, Vostochno-Kasakhstanskaya oblast' (for (Mining engineering))

IMENITOV, V.R., dotsent

Determining mine productivity in terms of the maximum, technically feasible extraction. Izv. vys. ucheb. zav.; gor. zhur. no.9:7-12 60. (MIRA 13:9)

1. Moskovskiy gornyy institut ir. I.V. Stalina. Rekomend. kafedroy razrabotki rudnykh mestorozhdeniy.

(Mining engineering)

IMENITOV. Visdimir Rafall vich: KOVALEV, Iger' Anteninovich;

URAINV Visdimir Rafall viche; KOVALEV, Iger' Anteninovich;

[Modeling one caving and drawing; a manual] Kodelirovanie chrusheaiia i vypuska rudy: uchebnce posobie. Moskva,

Mosk. gornyl in-t, 1961. 150 p. (MIRA 18:4)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610002-7"

IMENITOV, Vladimir Rafailovich. Prinimali uchastiye: KUTUZOV, D.S.;

FAYBISHENKO, D.I.; ZHIGALOV, M.L.; AGOSHKOV, M.I., retsenzent;

MALKIN, I.M., kand. tekhn. nauk, retsenzent; ALBOROV, Z.B.,

kand. tekhn. nauk, retsenzent; BUBLIS, A.N.; gorn. inzh., retsenzent; BUNIN, A.I., otv. red.; SIFYAGINA, Z.A., red. izd-va;

SHKIYAR, S.Ya., tekhn. red.

[Highly productive systems of mining thick hard ore deposits] Vysokoproizvoditel nye sistemy razrabotki moshchnykh nestorozhdenii krepkikh rud. Moskva, Gos.nauchno-tekhn.izd-vo litry po gornomu delu, 1961. 417 p. (MIRA 15:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Agoshkov). (Mining engineering)

IMENITOV, V.R., doktor tekhn.nauk; GAMHERG, R.M., gornyy inzh.; KAZIKAYEV; D.M.

Results of tests of the chamber mining system without pillars on the bottom in the Zyryanovsk Mine. Gor. shur. no.2:18-23 F 163. (MIRA 16:2)

1. Moskovskiy institut radioelektroniki i gornoy elektronekhaniki (for Imenitov). 2. Zyryanovskiy rudnik (for Gamberg, Kasikayev).

(Zyryanovsk District—Mining engineering)

APPROVED FOR RELEASE: 08/10/2001 CIA

IMENITOV, V.R., prof., doktor tekhn. nauk; CHIAYEV, T.I., gormy; inzh.; INFANT'YEV, A.N.

Investigating the behavior of sand and clay depositions in the mining of iron ore deposits in the Kursk Magnetic Anomaly. Gor. zhur. no.9:22-23 S '64. (MIRA 17:12)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for Imenitov, Chiayev). 2. Direktor Yakovlevskogo rudnika Kurskoy magnitnoy anomalii (for Infant'yev).

IMENITOV, V.R., prof., doktor tekhn.nauk; PUSTOVALOV, A.I.

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Method of ore breaking under compression. Gor.zhur. no.12:19:23 D *64. (MINA 18:1)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for Imenitov). 2. Glavnyy inzh. rudnika im. XXII shyezda Kommunisticheskoy partii Sovetskogo Soyuza Zyryanovskogo svintsovogo kombinata (for Pustovalov).

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9.4300 (1043,1143,1150)

S/181/61/003/003/029/030 B102/B205

26.2532

AUTHORS:

Burdukov, Yu. M., Imenkov, A. N., Nasledov, D. N., and

Tsarenkov, B. V.

TITLE:

Alloyed GaAs junction diodes

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 3, 1961, 991-994

TEXT: This is the continuation of Refs. 1-9 which the authors published in FTT with the exception of Ref. 9 (C. T. Sah, R. N. Noyce, W. Shockley, Proc. IRE, 45, 9, 1228, 1957). The diodes studied were made from thin plates of n-type GaAs single crystals which had been grown by the method of Chokhral'skiy. Their resistivity was 0.02 ohm·cm, their electron concentration £10¹⁷ cm⁻³, and their mobility 3500 cm²/v·sec at room temperature. The p-n junction was obtained by introduction of molten zinc or from the eutectic Au-Zn alloy. Lead served as non-rectifying base contact. The area of the p-n junction was equal to S = 0.005 cm². The volt-ampere characteristics of such a diode at 25 and 300°C are shown in a figure. They were recorded by the "characteriograph" described in Ref. 10 (Tsarenkov, PTE, No. 2, 144,

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Alloyed GaAs ...

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1960). The most important results were the following: 1) The direct branch of the diode characteristic at voltages below the cutoff voltage can be described by the formula $I_{\rm dir} = I_0 \left[\exp(q U_{\rm dir}/\beta kT) - 1 \right]$ (1). $I_{\rm dir}$ is the direct current density, $U_{\rm dir}$ the direct voltage drop on the diode, and β a dimensionless factor. I_0 increases with rising temperature. Within the range of nitrogen temperatures to room temperature, $I_0(T)$ is a weak function (weaker than at higher temperatures). At room temperature, $I_0 \simeq 10^{-8} - 10^{-7} \text{ a/cm}^2$, and at 300°C , $I_0 \simeq 10^{-5} - 10^{-4} \text{ a/cm}^2$. β decreases with rising temperature within the range of $-196 - +300^{\circ}\text{C}$. At nitrogen temperatures, $\beta \simeq 7 - 12$; at room temperature, 2 - 3; and on a further change in temperature, it approaches a value ≤ 2 . The direct branches of the voltampere characteristics of several diodes have two exponential sections: $I_{\rm dir}^{\dagger} = I_{01} \exp(q U_{\rm dir}^{\dagger}/\beta_1 kT)$ and $I_{\rm dir}^{\dagger} = I_{02} \exp(q U_{\rm dir}^{\dagger}/\beta_2 kT)$; $U_{\rm dir}^{\dagger} < U_{\rm dir}^{\dagger}$, $I_{01} > I_{02}$, $I_{12} > I_{01}$ and I_{02} increase with temperature (I_{02} faster than I_{01}); at $200 - 300^{\circ}\text{C}$, $I_{01} \simeq I_{02}$, $I_{12} \simeq I_{02}$. The occurrence of two

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Alloyed GaAs ...

exponential sections of the direct branch is related to the surface properties of the diode. By a change of the composition of the etching agent, one of them disappears, and in formula (1) $I_{02} I_{02}$ and $\beta_{2} \beta_{2}$. The existence of two sections and the disappearance of one section by surface treatment is ascribed to the fact that the surface of gallium arsenide has an inverse layer. The cutoff voltage of the direct branch is lower than the contact voltage calculated according to Shockley's junction theory, and drops with increasing temperature. The temperature coefficients of the two voltages are almost equal. The curvature Gg of the linear section of the direct branch calculated from the data of the diode with a base 0.5 mm thick amounted to ~103 a/v·cm2. The differential resistance at zero voltage can be exactly calculated from the formula $R_0 = \beta kT/qI_0$. $R_0(T)$ is nearly inverse to $I_0(T)$. Ro of diodes with two exponential sections of the direct branch is much smaller than R_{0} of diodes with only one section. The reverse branch of the characteristics at voltages lower than the breakdown voltage can be described by the empirical formula I rev = AUn , where n \$1; I rev increases with temperature. The breakdown voltage also increases with temperature, which is Card 3, 6

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Alloyed GaAs ...

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taken as an indication of the electric character of breakdown in low-voltage GaAs diodes. There are 1 figure and 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN USSR Leningrad (Institute of

Physics and Technology, AS USSR, Leningrad)

SUBMITTED:

September 23, 1960

Legend to Fig.: Ordinate unit 4 ma, abscissa unit 1 v (left-hand diagrams) or 0.25 v (right-hand diagrams).

Card 4/6

an entrans account and a supplied to the contract of the contr L 18849-65 EWT(m)/EWP(t)/EWP(b) IJP(c)/PAEP(a)/AFVIL/ESID(gs)/ESID(t) JD A JESSION NR: AF4043341 S/0181/64/006/008/2281/2288 AUTHORS: Imenkov, A. N.; Meskin, S. S.; Masledov, D. N.; Ravich V. N.; Tsarenkov, B. V. TITLE: Electrical properties of pn tunnel junctions SOURCE: Fizika tverdogo tela, v 6 no TOPIC TAGS: galllum arsenide diode, pm junction, single crysta tunnel current, temperature dependence, forbidden band ABSTRACT: Forward and reverse branches of the current-udltage characteristics of p-n tunnel junctions in GaAs were investigated between 77 and 425K. The junctions (10⁻⁵ cm² in area) were produced in single-crystal Zn-doped p-type material by alloying with tin. Direct current or voltage pulses (to avoid heating) were used. The forward (tunnel and recombination) current rose rapidly to a Cari 1/3

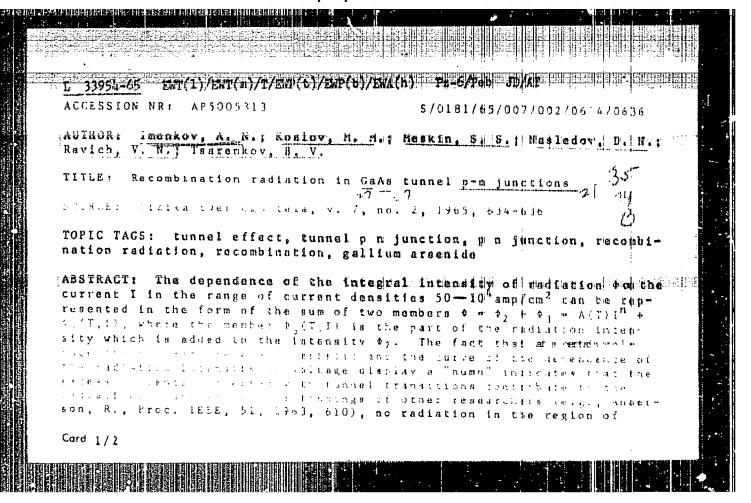
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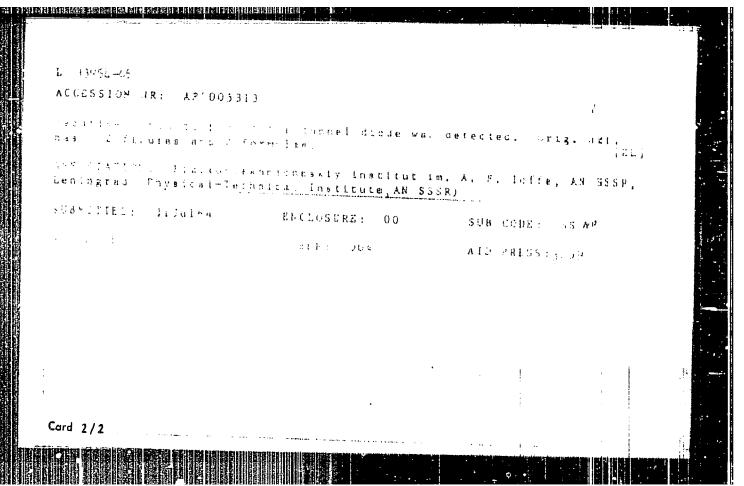
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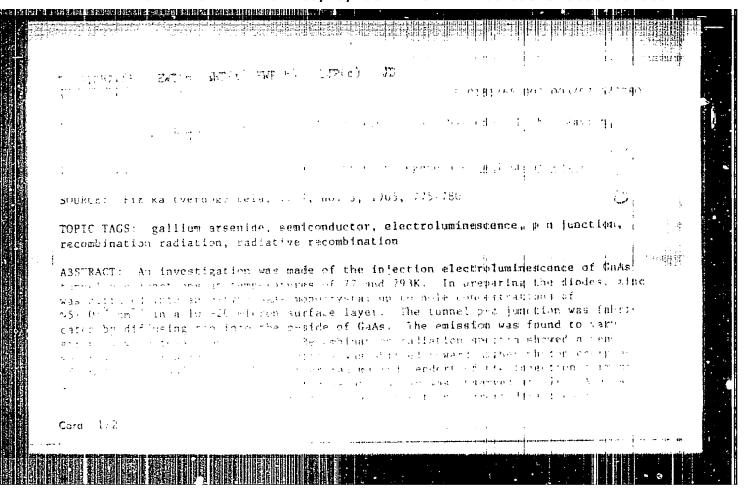
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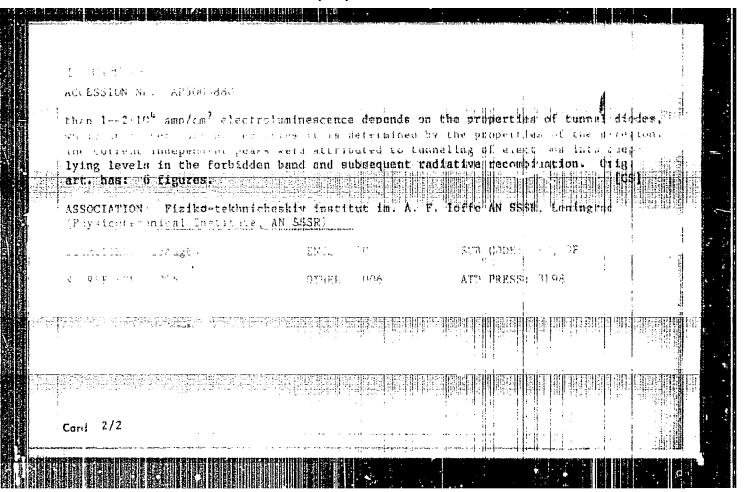
maximum at 0.1 V; this was followed by an exponential fall of the current [I $\sim \exp(-qU/\mathcal{E}_1)$] nearly to zero at 0.5-0.7 V and an exponential rise [I $\sim \exp(qU/\mathcal{E}_2)$] on further increase of the voltage. The values of \mathcal{E}_1 and \mathcal{E}_2 were independent of temperature, which indicated the presence of levels in the forbidden band. The forward current was little affected by temperature due to a weak temperature dependence of the tunnel transition probability and of the Fermi function. The Fermi level at room temperature was $\zeta_1 = 0.08-0.15$ eV for the p-region and $\zeta_1 = 0.26-0.32$ eV for the n-region. The reverse tunnel current increased, linearly at $U <<(\zeta_p, \chi/q)$ and quadratically at $U > (\zeta_p, \eta/q)$, with rise of the voltage across the junction. This indicated that at energies $\mathcal{E} > \frac{1}{p+1}$ the band involved in the reverse tunnel current was parabolic. The reverse

L 18849-65 ACCESSION NR: AP4043341 current varied very little with temperature, again due to a weak temperature dependence of the tunnel transition probability and of the Fermi function. "The authors are grateful to F. Kh. Kreyndel." and G. V. Kuznetsoma for help with the work and to R. F. Kazarinov for a discussion of the results." Orig. art. has: 6 figures and 5 formulas. Fiziko-tekhnicheskiy institut im. A. F. Toffe AN ESSR ASSOCIATION: Leningrad (Physicotechnical Institute, AN SSSR) SUBMITTED: 10Jan64 ENCL: SUB CODE: EC, SS NR REF SOV: 004 OTHER: 007 Card 3/3



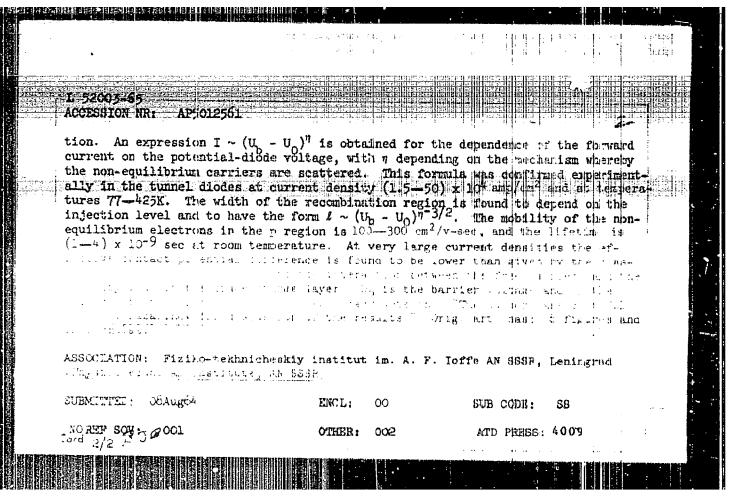






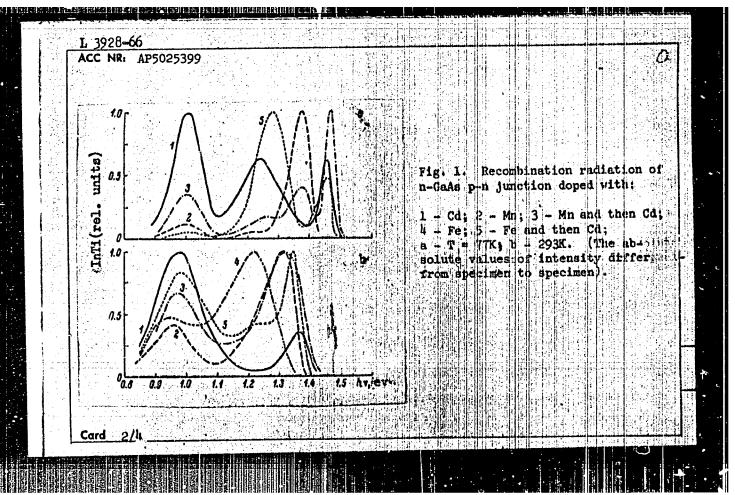
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	N.; Kozlov, M. M.				- 3.4 - B	
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is less de les al demandes este en les des de les en l'infilie de l'in ACC NR. AP5025399 BOURCE CODE: IR/0181/65/007/010/3115/3116 AUTHOR: Imenkov. M.; Meskin. Nasledov. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhni 44.55 TITLE: The effect of impurities on the recombination radiation of gallium arsenide SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3115-3118 TOPIC TAGS: recombination radiation, gallium arsenide, pn junction, impurity, ABSTRACT: The effect of Zn, Cd, Mn, and Fe impurities on the recombination radiation of GaAs p-n junctions was experimentally investigated. The junctions were formed by direct diffusion of the element, by simultaneous diffusion of Mm and Cd and Fe and Cd, or by diffusion of Mn and then Cd, or Fe and then Cd into n-type GaAs with an electron concentration (Nn) of 5 x 10^{16} 3 x 10^{18} cm⁻³ (drystals with Nn > 7 x 10^{17} cm were doped with Te), The junction area was 10-3-10-4 cm2. The recombination spectra were measured at 77 and 293K in the photon energy range between 0.7 and 1.6 ev. The spectra were recorded at direct injection currents at which the energy of the short wavelength band was independent of the current. The experimental data are given in Fig. 1 and Table 1. The band with homax 2 1.01 ev (37K) and homax = 0.95-0.98 ev Card

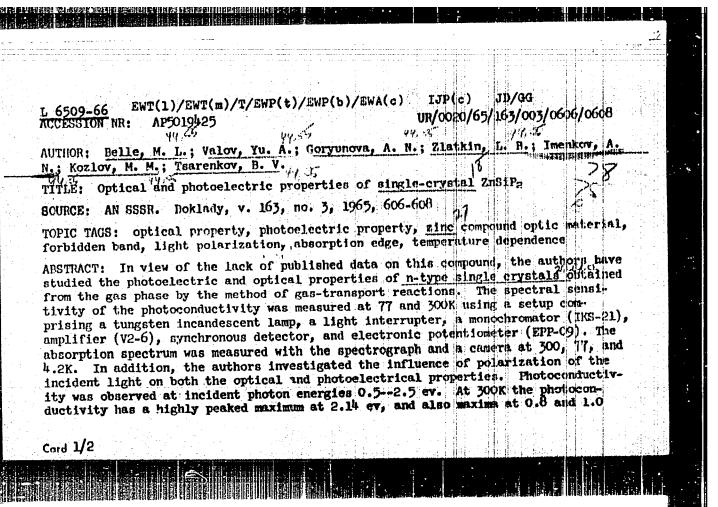
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		Impurity	r, •K	Emis	sion Band				
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	. 5	· 1014 < n, < 7 · 1019	293	(0.0150.022) 1.38÷1.36 (0.035÷0.050)			(0 12) 0 97 (0 14)		
			π	1.47 -1.46		1,20 1.26	1 (r2 (0.12)		
		3 · 10t0 > ** > 10t0	293	1.38—1.36 (0.035—0.050)	-	•	0.97 (0.14)		
		. a	77	1.481.46 (0.0250.045)		1.25 (0.15)	1.01 (0.12) 0.97		
			293	1.36—1.36 (0.040—0.060)		-	(0.16) 1.02		
		u. (77		1.59—1.58 (< 0.10) 1.33—1.32	1	(0.12) (0.96		
			293	ce 1.47	(0.13)	.26	1.01		
		Ma + Cd	293	(0.149) 1.37—1.32 (0.16—0.05)	. (< 0.10)		((12) (198 ((115)		
			77 293	(0.16=0.05)	1.28 1.22		1.01 1.01		
		! •	77	-146	(0.18)		1.03		
		Fe + Cd	293	~ 1.46 (0.145) 1.36	(C(13)	44	199		
							93.110		
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	(293K) and the band with h	vmax 2 1.25	ev, clearl	y defined o	nly at 77K	ir junct	ions
	attributed to recombination radiation of excess carriers via the deep levels with activation energies of 0.5 and 0.25 ev, respectively. Orig. art. has: 2 figures and						
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ev, attributed to impurities. At 77K the maxima shift to 4.19, 1.04, and 0.84 respectively. The spectral photoconductivity curve exhibited also some kinks due to transitions of the electrons from the valence to the conduction band. Polarization began to affect the photoconductivity only above 2 ev, when the photoconductivity became highly sensitive to the direction of the electric vector. This may be due to anisotropy of the crystal. Not all crystals showed a sharp absorption edge, a fact attributed to the number of crystal defects. Where a sharp absorption edge was observed, it showed a dependence on the temperature and on the polarization. The maxima of the photoconductivity and the start of the strong optical atsorption were very close to each other, and the sharpness of the absorpt on edge suggests the presence of direct interband transitions in ZnSiP2. The forbidden band is estimated at 2.13 ev at 300K and between 2.2 and 2.25 ev at 77K. Two absorption bands are observed at 2.23 and 2.27 ev at 77 and 4.2K, and their origin is not clear. This report was presented by L. A. Artsimovich. Orig. art. has: 2 figures

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Absdemii nauk SSSR

(Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 17Nov64

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OTHER: 001

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CIA-RDP86-00513R000618610002-7" APPROVED FOR RELEASE: 08/10/2001

IMENKOV, A.N.; KOGAN, L.M.; KOZLOV, M.M.; MESKIN, S.S.; NASLEDOV, D.N.; TSARENKOV, B.V.

Effect of impurities on the recombination radiation spectra of gallium arsenide. Fiz. tver. tela 7 no.10:3115-3118 0 '65.

(MIRA 18:11)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

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L 04741-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD ACC NR: AP6024472 SOURCE CODE: UR/0181/66/008/007/2098/2103 AUTHOR: Imenkov, A. N.; Kozlov, M. M.; Nasledov, D. N.; Tsarenkov, B. V. ORG: Physicotechnical Institute im. A. F. Ioffee, AN SSSR, Leningred (Fizikotekhnicheskiy institut AN SSSR) TITLE: Kinetics of radiative recombination of nonequilibrium carriers in GaAs p-n junctions SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2098-2103 TOPIC TAGS: gallium arsenide, radiative recombination, Jemiconductor carrier, pn junction, relaxation process, spectral distribution, radiation intensity ABSTRACT: The authors report results of experiments on the dependence, on the current density, of the intensity of radiation for different bands of the spectrum (photon energy range 0.7 - 1.5 ev) of GaAs diffusion p-n junctions, at 77 and 293K, and also results of a simultaneous investigation of the relaxation of the radiation intensity when rectangular current pulses are passed through the junction. The relaxation study is a continuation of earlier work by the authors (Abstracts of Papers of Second All-Union Conference on p-n Junctions, AN LatSSR, Riga, 1964, p. 14) where a long-wave aftereffect was noted after the termination of a square pulse. The GaAs p-n junctions were obtained by diffusion of Zn, Cd, or Cd and Mn jointly. The tests consisted of determining the spectral distribution of the radiation intensity, the variation of the radiation intensity with the current, and oscillograms of the current, voltage, and Card 1/2

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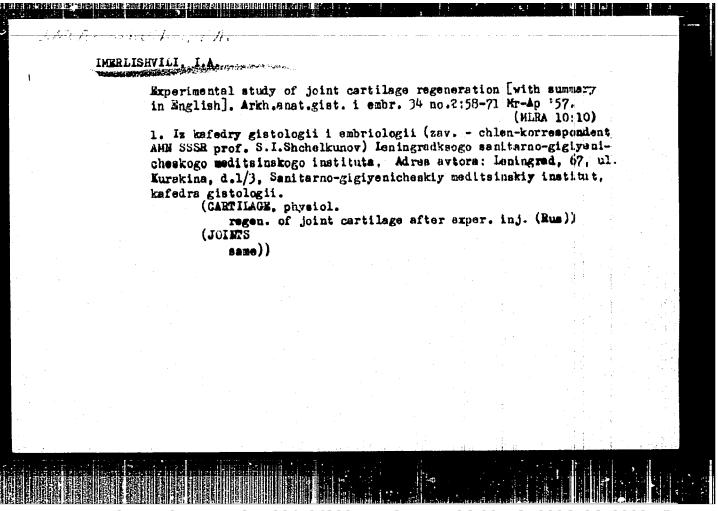
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radiation-intensity pulses. The current pulses ranged in amplitude from 0.05 to 7 and and in duration from 10 to 100 µsec. Pulses with duration ~10 nsec were also used. The spectrum consisted of several bands, the presence of which indicates that the recombination of the nonequilibrium carriers goes in part through deep levels. The possible kinetics of such a process are discussed. The current and voltage relaxation time is several orders of magnitude shorter than the intensity relaxation time of the long-wave radiation. The bands with longer wavelength have longer relaxation times. The two ban-s with the longest wavelength are attributed to recombination of the minority carriers injected over the potential barrier and crytured at deep lawels. The authors thank 0. V. Konstantinov, V. I. Perel', and A. L. Efros for a discussion of the results. Orig. art. has: 4 figures.

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